

IN THE CLAIMS

1. (Currently Amended) A computer-implemented method for building a template specifying an emotional response to a content stream, the method comprising:
 - selecting a dictionary, the dictionary including a plurality of econcepts, concepts to form a directed set, wherein one concept identified as-is a maximal-element, and a plurality of chains connecting the maximal element to each concept in the directed set; element;
 - establishing a directed link between at least a first concept and a second concept in the directed set, the directed link defining an “is a” relationship between the first concept and the second concept;
 - establishing intentional stance basis chains in the directed set from the maximal element to each concept along the directed links, where for each pair of concepts in each chain, one of the pair of concepts is a lineal ancestor of the other of the pair of concepts;
 - selecting a set-subset of intentional stance basis chains to form a basis;
 - selecting at least one concept in the dictionary;
 - creating a state vector in a topological vector space for each selected concept, wherein each state vector includes as at least one measure of how concretely the concept is represented in each chain in the basis; and
 - assembling the state vectors into a template; and
 - associating an action with the template.
2. (Original) A method according to claim 1, wherein associating an action includes assigning a threshold distance to the action so that the action will be performed when the content stream is within the threshold distance of the template.
3. (Original) A method according to claim 2, wherein:
 - associating an action includes associating a plurality of actions with the template; and
 - assigning a threshold distance includes assigning a unique threshold distance to each action so that the action will be performed when the content stream is within the assigned threshold distance of the template.
4. (Original) A method according to claim 1, wherein assigning an action includes assigning a plurality of actions to be performed when the content stream is within one of a plurality of threshold distances of the template, each action to be performed when the content stream is within a unique range of distances of the template.

5. (Original) A method according to claim 1, the method further comprising constructing a centroid vector for the template from the state vectors.

6. (Currently Amended) A computer-implemented method for comparing a template with a content stream to determine whether the content stream provokes an emotion response, the method comprising:

~~constructing the template in a topological vector space, the template including an associated action and threshold distance;~~

selecting a dictionary, the dictionary including a plurality of concepts to form a directed set, wherein one concept is a maximal element;

establishing a directed link between at least a first concept and a second concept in the directed set, the directed link defining an “is a” relationship between the first concept and the second concept;

establishing intentional stance basis chains in the directed set from the maximal element to each concept along the directed links, where for each pair of concepts in each intentional stance basis chain, one of the pair of concepts is a lineal ancestor of the other of the pair of concepts;

selecting a subset of intentional stance basis chains to form a basis;

selecting a plurality of concepts in the dictionary;

creating a state vector in a topological vector space for each selected concept, wherein each state vector includes a measure of how concretely the selected concept is represented in each intentional stance basis chain in the basis;

assembling the state vectors into a template;

associating an action with the template;

constructing an impact summary for the content stream; stream, the impact summary including a plurality of state vectors; and

comparing the impact summary with the template.

7. (Original) A method according to claim 6, wherein comparing the impact summary with the template includes measuring a distance between the impact summary and the template.

8. (Original) A method according to claim 7, wherein measuring a distance includes performing a topological vector space transformation on the impact summary.

9. (Original) A method according to claim 7, the method further comprising performing the action associated with the template if the distance between the impact summary and the template is less than the threshold distance of the template.

10. (Original) A method according to claim 7, wherein measuring a distance includes locating a centroid vector for each of the template and the impact summary.

11. (Original) A method according to claim 10, wherein measuring a distance further includes measuring an angle between the template centroid vector and the impact summary centroid vector.

12. (Original) A method according to claim 7, wherein measuring a distance includes measuring a Hausdorff distance between the impact summary and the template.

13. (Original) A method according to claim 6, wherein constructing an impact summary includes iteratively constructing the impact summary for the content stream to track changes in the content stream.

14. (Original) An apparatus for building a template specifying an emotional response to a content stream, the apparatus comprising:

a computer;

a directed set stored in the computer including a plurality of concepts, one concept identified as a maximal element, and a plurality of chains stored extending from the maximal element to each concept;

an intentional stance basis including a subset of the plurality of chains;

for selected concepts in the directed set, a state vector in a topological vector space, wherein each state vector includes at least one measure of how concretely the concept is represented in each chain in the intentional stance basis;

a template including the state vectors; and

an action associated with the template.

15. (Currently Amended) An apparatus according to claim 14, the apparatus further including:

a threshold distance for the template; and

means for performing the action associated with the template when an impact

summary of the content stream is within the threshold distance of the ~~template~~, template, the impact summary including at least one state vector constructed using the dictionary and the intentional stance basis.

16. (Original) An apparatus according to claim 15, wherein:

the threshold distance includes a plurality of threshold distances for the template;

the action includes a plurality of actions associated with the template; and

the means for performing the action includes means for performing one of the plurality of actions when the impact summary of the content stream is within one of the threshold distances of the template.

17. (Currently Amended) An apparatus for comparing a template with a content stream to determine whether the content stream provokes an emotion response, the apparatus comprising:

a computer having access to the content stream;

a template in a topological vector space stored in the computer, the template including a first plurality of state vectors in a topological vector space, an associated action, and a threshold distance;

means for capturing an impact summary for the content stream; the impact summary including a second plurality of state vectors in the topological vector space; and

means for comparing the impact summary with the template.

18. (Original) An apparatus according to claim 17, wherein the means for comparing the impact summary with the template includes means for measuring a distance between the impact summary and the template.

19. (Currently Amended) An apparatus according to claim 18, wherein:

the template includes a template centroid vector located from the first plurality of state vectors; and

the impact summary includes an impact summary centroid vector, vector located from the second plurality of state vectors.

20. (Currently Amended) An apparatus according to claim 19, wherein the means for measuring a distance between the impact summary and the template includes means for measuring a Euclidean distance between the impact summary centroid vector and the template centroid vector.

21. (Original) An apparatus according to claim 18, the apparatus further comprising means for performing the action associated with the template if the distance between the impact summary and the template is less than the threshold distance of the template.

22. (Currently Amended) An apparatus according to claim 17, wherein:
the template uses a first basis;
the impact summary uses a basis including a second subset of the plurality of vectors;
second basis; and
the apparatus includes a transformer for performing a topological vector space transformation on the impact-summary summary from the second basis to the first basis.

23. (Currently Amended) A computer-readable medium containing a program operable on a computer to build a template specifying an emotional response to a content stream, the program comprising:

selection software to select a dictionary, the dictionary including a plurality of concepts, concepts to form a directed set, wherein one concept identified as is a maximal element, and a plurality of chains connecting the maximal element to each concept in the directed set; element;

establishment software to establish a directed link between at least a first concept and a second concept in the directed set, the directed link defining an “is a” relationship between the first concept and the second concept;

establishment software to establish intentional stance basis chains in the directed set from the maximal element to each concept along the directed links, where for each pair of concepts in each chain, one of the pair of concepts is a lineal ancestor of the other of the pair of concepts;

selection software to select a setsubset of intentional stance basis chains to form a basis;

selection software to select at least one concept in the dictionary;

creation software to create a state vector in a topological vector space for each selected concept, wherein each state vector includes as its components measures of how concretely the concept is represented in each chain in the basis; ~~and~~

assembly software to assemble the state vectors into a template; and

association software to associate an action with the template.

24. (Currently Amended) A computer-readable medium containing a program operable on a computer to compare a template with a content stream to determine whether the content stream provokes an emotion response, the method comprising:

~~construction software to construct the template in a topological vector space, the template including an associated action and threshold distance;~~

selection software to select a dictionary, the dictionary including a plurality of concepts to form a directed set, wherein one concept is a maximal element;

establishment software to establish a directed link between at least a first concept and a second concept in the directed set, the directed link defining an “is a” relationship between the first concept and the second concept;

establishment software to establish intentional stance basis chains in the directed set from the maximal element to each concept along the directed links, where for each pair of concepts in each intentional stance basis chain, one of the pair of concepts is a lineal ancestor of the other of the pair of concepts;

selection software to select a subset of intentional stance basis chains to form a basis;

selection software to select a plurality of concepts in the dictionary;

creation software to create a state vector in a topological vector space for each selected concept, wherein each state vector includes a measure of how concretely the selected concept is represented in each intentional stance basis chain in the basis;

assembly software to assemble the state vectors into a template;

association software to associate an action with the template;

construction software to construct an impact summary for the content stream; ~~stream,~~ the impact summary including at least one state vector; and

comparison software to compare the impact summary with the template.

25. (New) A method according to claim 6, wherein constructing an impact summary includes:

selecting a second plurality of concepts in the dictionary;

creating a second state vector in a topological vector space for each second selected concept, wherein each second state vector includes a measure of how concretely the second selected concept is represented in each chain in the basis; and

assembling the second state vectors into the impact summary.

26. (New) A method according to claim 8, wherein constructing an impact summary includes:

selecting a second dictionary, the second dictionary including a second plurality of concepts to form a second directed set, wherein one second concept is a second maximal element;

establishing a second directed link between at least a first second concept and a second second concept in the second directed set, the second directed link defining an “is a” relationship between the first second concept and the second second concept;

establishing second intentional stance basis chains in the second directed set from the second maximal element to each second concept along the second directed links, where for each pair of second concepts in each second intentional stance basis chain, one of the pair of second concepts is a lineal ancestor of the other of the pair of second concepts;

selecting a second subset of intentional stance basis chains to form a second basis;

selecting a plurality of second concepts in the dictionary;

creating a second state vector in a second topological vector space for each selected second concept, wherein each second state vector includes a measure of how concretely the second concept is represented in each second intentional stance basis chain in the second basis; and

assembling the second state vectors into the impact summary.